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6. 84% **A hierarchical approach to adaptive control for improved safety**

Moshe Idan, Matthew Johnson, and Anthony J. Calise (Georgi Technology, Atlanta)
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Boris Moulin, Moshe Idan, and Mordechay Karpel (Technion - Inst. of Technology, Haifa)
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Moshe Idan and Arthur J. Grunwald (Technion - Israel Inst. of Technology, Haifa)
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AIAA Modeling and Simulation Technologies Conference and Portland, OR, Aug. 9-11, 1999, Collection of Technical Papers 36794 09-54)

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Mordechay Karpel, Moshe Idan, and Daniel Cohen (Technion Inst. of Technology, Haifa)
AIAA-1998-1864
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Structures Forum, Long Beach, CA, Apr. 20-23, 1998, Collecti
Technical Papers. Pt. 2 (A98-25092 06-39)

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14. 82% **Integrated Sliding Mode Autopilot-Guidance for Dual Cont Missiles**

M. Idan, Technion-Israel Institute of Technology, Haifa, Israel; and O. Golan, RAFAEL Armament Development Authority Ltd Israel
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A. Kutay and A. Calise, Georgia Institute of Technology, Atlant M. Idan, Technion - Israel Institute of Technology, Haifa, Israel Hovakimyan, Georgia Institute of Technology, Atlanta, GA
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Moti Karpel, Boris Moulin, and Moshe Idan (Technion - Israel I Technology, Haifa)
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Moshe Idan ; Anthony J. Calise; Naira Hovakimyan
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Journal of Guidance, Control, and Dynamics 1999
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Moshe Idan; Mordechay Karpel; Boris Moulin
Journal of Guidance, Control, and Dynamics 1999
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David Mishne; Moshe Idan; Yaacov Laufer
Journal of Guidance, Control, and Dynamics 1997
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Y. Teng, The Boeing Company, Long Beach, CA; H. Chen, Ca State University Long Beach, Long Beach, CA
AIAA-2006-443
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T. Shima, RAFAEL Ltd., Atlanta, GA; M. Idan, Technion-Israel of Technology, Haifa, Israel; O. Golan, RAFAEL Ltd., Haifa, Isı
AIAA-2004-4884
AIAA Guidance, Navigation, and Control Conference and Exhi
Providence, Rhode Island, Aug. 16-19, 2004

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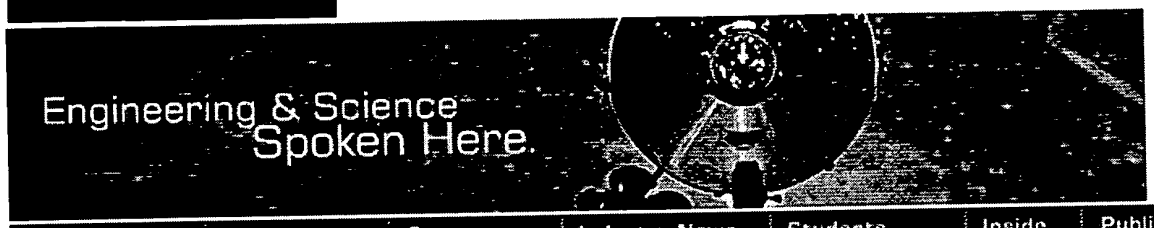
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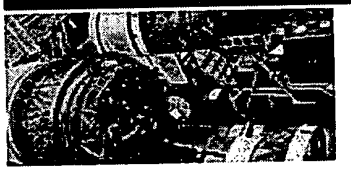
M. Idan, G. Iosilevskii and S. Nazarov, Technion□Israel Institu
Technology, Haifa, Israel
AIAA-2003-5787
AIAA Guidance, Navigation, and Control Conference and Exhi
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28. 80%	**Active H-infinity control of sound radiation from thin plate** Baruch Pletner, Moshe Idan, and Tanchum Weller (Technion - Inst. of Technology, Haifa) AIAA-1997-3611 AIAA Guidance, Navigation, and Control Conference, New Orl Aug. 11-13, 1997, Collection of Technical Papers. Pt. 2 (A97-3 63)

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Idan, MosheShaviv, Guy E
AIAA-1995-3191
AIAA Guidance, Navigation and Control Conference, Baltimor
Aug 7-10, 1995, Technical Papers. Pt. 1 (A95-39609 10-63),
Washington, DC, American Institute of Aeronautics and Astror
1995, p. 164-174

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30. 80% **Robust control design strategy with parameter-dominated uncertainty**

Idan, Moshe (Technion - Israel Inst. of Technology, Haifa);Sha
E. (Technion - Israel Inst. of Technology, Haifa)
Journal of Guidance, Control, and Dynamics 1996
0731-5090 vol.19 no.3 (605-611)

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31. 77% **Reduced-Size Aeroservoelastic Modeling and LCO Simula with Structurally Non-Linear Actuators**

P. Gold and M. Karpel, Technion-Israel Institute of Technology
of Aerospace Engineering, Haifa, Israel
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47th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dyna
and Materials Conference
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M. Idan, Technion - Israel Institute of Technology, Haifa, Israel
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Alessandro Casavola ; Edoardo Mosca
Journal of Guidance, Control, and Dynamics 2004
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36. 77% **High order approximate optimal planar guidance of an aeroassisted space vehicle**

Mishne, DavidLaufer, Yaacovldan, Moshe
AIAA-1995-3476
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Idan, Moshe (Technion - Israel Inst. of Technology, Haifa);Gol
M. (Rafael Armament Development Authority, Haifa, Israel);Gu
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Journal of Guidance, Control, and Dynamics 1995
0731-5090 vol.18 no.6 (1273-1279)

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1 Full papers: Toward V&V of neural network based controllers

Johann Schumann, Stacy Nelson

November 2002 **Proceedings of the first workshop on Self-healing systems**

Publisher: ACM Press

Full text available: pdf(263.46 KB) Additional Information: full citation, abstract, references

Online adaptation is a powerful means to handle unexpected slow or catastrophic changes of the system's behavior (e.g., a stuck or broken rudder of an aircraft). Therefore, adaptation is one way for realizing a self-healing system. Substantial research and development has been made to use neural networks (NN) for such tasks (e.g., integrated in various unmanned helicopters and test-flown on a modified F-15 aircraft). Despite the advantages of adaptive neural network based systems, the lack of me ...

2 Transformations and distortions tolerant recognition

of numerals using neural networks
R. P. Srivastava
April 1991 **Proceedings of the 19th annual conference on Computer Science**
Publisher: ACM Press
Full text available: pdf(476.93 KB) Additional Information: full citation, references, citings

3 A Neural Approach for Fast Simulation of Flight Mechanics
Giorgio Valmorbida, Wen-Chi Lu, Felix Mora-Camino
April 2005 **Proceedings of the 38th annual Symposium on Simulation ANSS '05**
Publisher: IEEE Computer Society
Full text available: pdf(136.30 KB) Additional Information: full citation, abstract, index terms

Flight simulators have been part of aviation history since its beginning. With the development of modern aeronautics industry, flight simulators have gained an important place and the industry devoted to their manufacture has become significant. In the case of transportation aircraft, accurate mathematical models based on extensive experimental data have been developed by their manufacturers to optimise their aerodynamic and propulsive characteristics and to design efficient flight control syste ...

4 Social choice theory and distributed decision making
Arnold B. Urken
April 1988 **ACM SIGOIS Bulletin , Proceedings of the ACM SIGOIS and IEEECS TC-OA 1988 conference on Office information systems**, Volume 9 Issue 2-3
Publisher: ACM Press
Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, citings, index terms

Strategies of distributed decision making based on social choice theory can be used to create a balance between organizational complexity and uncertainty. Although Group Decision Support Systems (GDSS's) have included options for making human collective choices, their design has not been based on optimal rules. Social choice theory can also be used to improve the reliability of decisions made by nodes in distributed computer networks. Three examples illustrate the application of this theory ...

5 Modeling methodology: Model abstraction for discrete event systems using neural networks and sensitivity information

Christos G. Panayiotou, Christos G. Cassandras, Wei-Bo Gong

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Publisher: Society for Computer Simulation International

Full text available: pdf(101.82 KB) Additional Information: full citation, abstract, references

Simulation is one of the most powerful tools for modeling and evaluating the performance of complex systems, however, it is computationally slow. One approach to overcome this limitation is to develop a "metamodel". In other words, generate a "surrogate" model of the original system that accurately captures the relationships between input and output, yet it is computationally more efficient than simulation. Neural networks (NN) are known to be good function approximators and thus make good metam ...

6 Computational strategies for object recognition

Paul Suetens, Pascal Fua, Andrew J. Hanson

March 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 1

Publisher: ACM Press

Full text available: pdf(6.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This article reviews the available methods for automated identification of objects in digital images. The techniques are classified into groups according to the nature of the computational strategy used. Four classes are proposed: (1) the simplest strategies, which work on data appropriate for feature vector classification, (2) methods that match models to symbolic data structures for situations involving reliable data and complex models, (3) approaches that fit models to the photometry and ...

Keywords: image understanding, model-based vision, object recognition

7 Crowd and group animation

Daniel Thalmann, Christophe Hery, Seth Lippman, Hiromi

Ono, Stephen Regelous, Douglas Sutton
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press
Full text available: pdf(20.19 MB) Additional Information: full citation, abstract

A continuous challenge for special effects in movies is the production of realistic virtual crowds, in terms of rendering and behavior. This course will present state-of-the-art techniques and methods. The course will explain in details the different approaches to create virtual crowds: particle systems with flocking techniques using attraction and repulsion forces, copy and pasting techniques, agent-based methods. The architecture of software tools will be presented including the MASSIVE softwa ...

8 Terrain database interoperability issues in training with distributed interactive simulation

Guy A. Schiavone, S. Sureshchandran, Kenneth C. Hardis
July 1997 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 7 Issue 3

Publisher: ACM Press
Full text available: pdf(443.34 KB) Additional Information: full citation, abstract, references, citings, index terms, review

In Distributed Interactive Simulation (DIS), each participating node is responsible for maintaining its own model of the synthetic environment. Problems may arise if significant inconsistencies are allowed to exist between these separate world views, resulting in unrealistic simulation results or negative training, and a corresponding degradation of interoperability in a DIS simulation exercise. In the DIS community, this is known as the simulator terrain database (TDB) correlation problem. ...

Keywords: distributed interactive simulation, terrain databases

9 Computing with structured connectionist networks

Jerome A. Feldman, Mark A. Fanty, Nigel H. Goddard, Kenton J. Lynne
February 1988 **Communications of the ACM**, Volume 31 Issue 2

Publisher: ACM Press
Full text available: pdf(1.93 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The design and applications of massively parallel computational models could lead to dramatic advances in the ability to automate complex tasks such as those found in artificial intelligence.

10 Pen computing: a technology overview and a vision

André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Publisher: ACM Press

Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

11 Tree induction vs. logistic regression: a learning-curve analysis

Claudia Perlich, Foster Provost, Jeffrey S. Simonoff

December 2003 **The Journal of Machine Learning Research**, Volume 4

Publisher: MIT Press

Full text available: pdf(283.37 KB) Additional Information: full citation, abstract, references, citings, index terms

Tree induction and logistic regression are two standard, off-the-shelf methods for building models for classification. We present a large-scale experimental comparison of logistic regression and tree induction, assessing classification accuracy and the quality of rankings based on class-membership probabilities. We use a learning-curve analysis to examine the relationship of these measures to the size of the training set. The results of the study show several things. (1) Contrary to some prior o ...

12 Special issue on Machine learning methods for text and images: Matching words and pictures

Kobus Barnard, Pinar Duygulu, David Forsyth, Nando de Freitas, David M. Blei, Michael I. Jordan

March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press
Full text available: pdf(789.04 KB) Additional Information: full citation, abstract, citings, index terms

We present a new approach for modeling multi-modal data sets, focusing on the specific case of segmented images with associated text. Learning the joint distribution of image regions and words has many applications. We consider in detail predicting words associated with whole images (auto-annotation) and corresponding to particular image regions (region naming). Auto-annotation might help organize and access large collections of images. Region naming is a model of object recognition as a process ...

13 Probabilistic latent semantic indexing

Thomas Hofmann

August 1999 **Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press
Full text available: pdf(218.86 KB) Additional Information: full citation, references, citings, index terms

14 Evolutionary strategies and evolutionary programming: Morphing methods in evolutionary design optimization

Michael Nashvili, Markus Olhofer, Bernhard Sendhoff

June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

Publisher: ACM Press
Full text available: pdf(446.38 KB) Additional Information: full citation, abstract, references, index terms

Design optimization is a well established application field of evolutionary computation. However, standard recombination operators acting on the genotypic representation of the design or shape are often too disruptive to be useful during optimization. In this work, we will analyze whether morphing methods between two shapes can be used as recombination operators acting on the phenotype space, thus directly on the shape or design. We introduce three different morphing methods and employ them as r ...

Keywords: design optimization, evolution strategies, morphing methods, phenotypic recombination

15 Document detection: Inquery system overview

John Broglio, James P. Callan, W. Bruce Croft

September 1993 **Proceedings of a workshop on held at Fredericksburg, Virginia: September 19-23, 1993**

Publisher: Association for Computational Linguistics

Full text available: pdf(1.57 MB) Additional Information: full citation, abstract, references

The TIPSTER project in the Information Retrieval Laboratory of the Computer Science Department, University of Massachusetts, Amherst (which includes MCC as a subcontractor), has focused on the following goals:• Improving the effectiveness of information retrieval techniques for large, full-text databases,• Improving the effectiveness of routing techniques appropriate for long-term information needs, and• Demonstrating the effectiveness of these retrieval and routing techniques for ...

16 Computational Approaches to Image Understanding

Michael Brady

March 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1

Publisher: ACM Press

Full text available: pdf(10.04 MB) Additional Information: full citation, references, citings, index terms

17 Requirements interaction management

William N. Robinson, Suzanne D. Pawlowski, Vecheslav Volkov

June 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 2

Publisher: ACM Press

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, index terms

Requirements interaction management (RIM) is the set of activities directed toward the discovery, management, and disposition of critical relationships among sets of requirements, which has become a critical area of requirements engineering. This survey looks at the evolution of supporting concepts and their related literature, presents an issues-based framework for reviewing processes and products, and applies the framework in a review of RIM state-of-the-art. Finally, it presents seven researc ...

Keywords: KAOS, KATE, Oz, Requirements engineering, Telos, WinWin, analysis and design, composite system, deficiency driven design, dependency analysis, distributed intentionality, interaction analysis, software cost reduction (SCR)., system architecture, system specification, viewpoints

18 Covalidation of dissimilarly structured models

Sammuel A. Wright, Kenneth W. Bauer

December 1997 **Proceedings of the 29th conference on Winter simulation**

Publisher: ACM Press

Full text available: pdf(839.93 KB) Additional Information: full citation, references, citings, index terms

19 Session 3B: robot architectures: A hybrid mobile robot architecture with integrated planning and control

Kian Hsiang Low, Wee Kheng Leow, Marcelo H. Ang

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 1**

Publisher: ACM Press

Full text available: pdf(221.97 KB) Additional Information: full citation, abstract, references, citings, index terms

Research in the planning and control of mobile robots has received much attention in the past two decades. Two basic approaches have emerged from these research efforts: deliberative vs.\ reactive. These two approaches can be distinguished by their different usage of sensed data and global knowledge, speed of response, reasoning capability, and complexity of computation. Their strengths are complementary and their weaknesses can be mitigated by combining the two approaches in a hybrid architectu ...

Keywords: hybrid agent architectures, learning, mobile agents, perception and action in agents, performance, self-organizing systems

20 Graph contraction for physical optimization methods: a quality-cost tradeoff for mapping data on parallel

computers
N. Mansour, R. Ponnusamy, A. Choudhary, G. C. Fox
August 1993 **Proceedings of the 7th international conference on Supercomputing**
Publisher: ACM Press
Full text available: pdf(733.23 KB) Additional Information: full citation, abstract, references, citings, index terms

Mapping data to parallel computers aims at minimizing the execution time of the associated application. However, it can take an unacceptable amount of time in comparison with the execution time of the application if the size of the problem is large. In this paper, first we motivate the case for graph contraction as a means for reducing the problem size. We restrict our discussion to applications where the problem domain can be described using a graph (e.g., computational fluid dynamics appl ...

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